

1-22-04

EXPRESS MAIL LABEL NO.: EV 382 941 054 US

Form PTO-1449

Sheet 1 of 9

Applicant: Claude Betrisey, et al.

Serial No.: Unassigned

Att'y Docket No.: 14984.18.2

Filing Date: January 22, 2004

Group: Unassigned

Confirmation No.: Unassigned

For: METHODS AND APPARATUS FOR FILTERING AND CACHING
DATA REPRESENTING IMAGESINFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub Class</u>	<u>Filing Date</u>
<u>TD</u> A1.	4,136,359	01/23/79	Wozniak	358	17	04/11/77
<u>TD</u> A2.	4,217,604	08/12/80	Wozniak	358	16	09/11/78
<u>TD</u> A3.	4,278,972	07/14/81	Wozniak	340	703	01/08/80
<u>TD</u> A4.	5,057,739	10/15/91	Shimada et al.	313	477R	12/28/89
<u>TD</u> A5.	5,122,783	06/16/92	Bassetti, Jr.	340	701	07/27/90
<u>TD</u> A6.	5,254,982	10/19/93	Feigenblatt et al.	345	148	01/12/90
<u>TD</u> A7.	5,298,915	03/29/94	Bassetti, Jr. et al.	345	149	06/16/92
<u>TD</u> A8.	5,334,996	08/02/94	Tanigaki et al.	345	152	10/23/90
<u>TD</u> A9.	5,341,153	08/23/94	Benzschawel et al.	345	152	06/13/88
<u>TD</u> A10.	5,349,451	09/20/94	Dethardt	358	518	10/28/93
<u>TD</u> A11.	5,467,102	11/14/95	Kuno et al.	345	1	03/28/95
<u>TD</u> A12.	5,543,819	08/06/96	Farwell et al.	345	150	11/19/93

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<u>TDL</u>	A13.	5,548,305	08/20/96	Rupel	345	150	01/09/92
	A14.	5,555,360	09/10/96	Kumazaki et al.	395	143	04/04/91
	A15.	5,633,654	05/27/97	Kennedy Jr. et al.	345	114	03/16/95
	A16.	5,689,283	11/18/97	Shirochi	345	132	07/14/95
	A17.	5,767,837	06/16/98	Hara	345	152	04/16/93
	A18.	5,821,913	10/13/98	Mamiya	345	88	12/14/95 ^b
	A19.	5,847,698	12/08/98	Reavey et al.	345	173	09/17/96
	A20.	5,894,300	04/13/99	Takizawa	345	115	09/09/96
	A21.	5,949,643	09/07/99	Batio	361	681	11/12/97
<u>TDL</u>	A22.	5,963,185	10/05/99	Havel	345	83	09/27/96

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Other Documents

(including author (if listed), title, relevant pages, date of publication including at least month and year).

Examiner

Initial*

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|------------|------|---|
| <u>TDL</u> | A23. | Abram, G., et al., "Efficient Alias-Free Rendering Using Bit-Masking and Look-Up Tables," <i>San Francisco</i> , Vol. 19, No. 3, 1985, pp. 53-59. / |
| / | A24. | Ahumada, A.J., et al., "43.1: A Simple Vision Model for Inhomogeneous Image-Quality Assessment," <i>1998 SID</i> . |
| / | A25. | Barbier, B., "25.1: Multi-Scale Filtering for Image Quality on LCD Matrix Displays," <i>SID 96 DIGEST</i> . |
| / | A26. | Barten, P.G.J., "P-8: Effect of Gamma on Subjective Image Quality," <i>SID 96 Digest</i> . |
| / | A27. | Beck, D.R., "Motion Dithering for Increasing Perceived Image Quality for Low-Resolution Displays," <i>1998 SID</i> . |
| / | A28. | Bedford-Roberts, J., et al., "10.4: Testing the Value of Gray-Scaling for Images of Handwriting," <i>SID 95 DIGEST</i> , pp. 125-128. |
| <u>TDL</u> | A29. | Chen, L.M., et al. "Visual Resolution Limits for Color Matrix Displays," <i>Displays - Technology and Applications</i> , Vol. 13, No. 4, 1992, pp. 179-186. |

Examiner:



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TDC	✓	A30.	Cordonnier, V., "Antialiasing Characters by Pattern Recognition," <i>Proceedings of the S.I.D.</i> , Vol. 30, No. 4, 1992, pp. 23-28.
	✓	A31.	Cowan, W., "Chapter 27, Displays for Vision Research," <i>Handbook of Optics, Fundamentals, Techniques & Design</i> , Second Edition, Vol. 1, pp. 27.1-27.7.
	✓	A32.	Crow, F.C., "The Use of Grey Scale for Improved Raster Display of Vectors and Characters," <i>Computer Graphics</i> , Vol. 12, No. 3, August 1978, pp. 1-5.
	✓	A33.	Feigenblatt, R.I., "Full-Color Imaging on Amplitude-Quantized Color Mosaic Displays," <i>Digital Image Processing Applications SPIE</i> , Vol. 1075, 1989, pp. 199-205.
	✓	A34.	Gille, J. et al., "Grayscale/Resolution Tradeoff for Text: Model Predictions," <i>Final Report</i> , October 1992-March 1995.
	✓	A35.	Gould, J.D. et al., "Reading From CRT Displays Can Be as Fast as Reading From Paper," <i>Human Factors</i> , October 1987, Vol. 29, No. 5, pp. 497-517.
	✓	A36.	Gupta, S. et al., "Anti-Aliasing Characters Displayed by Text Terminals," <i>IBM Technical Disclosure Bulletin</i> , May 1983, pp. 6434-6436.
	✓	A37.	Hara, Z. et al., "Picture Quality of Different Pixel Arrangements for Large-Sized Matrix Displays," <i>Electronics and Communications in Japan</i> , 1974, Part 2, Vol. 77, No. 7, pp. 105-120.
TDC	✓	A38.	Kajiya, J. et al., "Filtering High Quality Text for Display on Raster Scan Devices," <i>Computer Graphics</i> , August 1981, Vol. 15, No. 3, pp. 7-15.

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Group: Unassigned

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For: METHODS AND APPARATUS FOR FILTERING AND CACHING
DATA REPRESENTING IMAGES

-
- TDL / A39. Kato, Y. et al., "13.2: A Fourier Analysis of CRT Displays Considering the Mask Structure, Beam Spot Size, and Scan Pattern," © 1998 *SID*.
- / A40. Krantz, J. et al., "Color Matrix Display Image Quality: The Effects of Luminance and Spatial Sampling," *SID 90 Digest*, pp. 29-32.
- / A41. Kubala, K. et al., "27.4: Investigation into Variable Addressability Image Sensors and Display Systems," 1998 *SID*.
- / A42. Mitchell, D.P., "Generating Antialiased Images at Low Sampling Densities," *Computer Graphics*, July 1987, Vol. 22, No. 4, pp. 65-69.
- ✓ A43. Mitchell, D.P., et al., "Reconstruction Filters in Computer Graphics," *Computer Graphics*, Vol. 22, No. 4, p. 221-227.
- ✓ A44. Morris, R.A. et al., "Legibility of Condensed Perceptually-Tuned Grayscale Fonts," *Electronic Publishing, Artistic Imaging, and Digital Typography*, Seventh International Conference on Electronic Publishing, March 30-April 3, 1998, pp. 281-293.
- ✓ A45. Murch, G., et al., "7.1: Resolution and Addressability: How Much is Enough?" *SID 85 Digest*, pp. 101-103.
- ✓ A46. Naiman, A., "Some New Ingredients for the Cookbook Approach to Anti-Aliased Text," *Proceedings Graphics Interface 81*, Ottawa, Ontario, 28 May - June 1, 1984, pp. 99-108.
- TDL A47. Naiman, A., et al., "Rectangular Convolution for Fast Filtering of Characters," *Computer Graphics*, July 1987, Vol. 21, No. 4, pp. 233-242.
-

Examiner: 

Date Considered: 11/9/05

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Confirmation No.: Unassigned

For: METHODS AND APPARATUS FOR FILTERING AND CACHING
DATA REPRESENTING IMAGES

-
- TDL ✓ A48. Naiman, A.C., et al., "10.1: The Visibility of Higher-Level Jags," *SID 95 Digest*, pp. 113-116.
- ✓ A49. Peli, E., "35.4: Luminance and Spatial-Frequency Interaction in the Perception of Contrast," *SID 96 Digest*.
- ✓ A50. Pringle, A., "Aspects of Quality in the Design and Production of Text," *Association of Computer Machinery*, 1979, pp. 63-70.
- ✓ A51. Rohellec, J. Le et al., "35.2: LCD Legibility Under Different Lighting Conditions as a Function of Character Size and Contrast," *SID 96 Digest*.
- ✓ A52. Schmandt, C., "Soft Typography," *Information Processing 80, Proceedings of the IFIP Congress*, 1980, pp. 1027-1031.
- ✓ A53. Sheedy, J.E., et al., "Reading Performance and Visual Comfort with Scale to Grey Compared with Black-and-White Scanned Print," *Displays*, 1994, Vol. 15, No. 1, pp. 27-30.
- ✓ A54. Sluyterman, A.A.S., "13.3: A Theoretical Analysis and Empirical Evaluation of the Effects of CRT Mask Structure on Character Readability," © 1998 *SID*.
- ✓ A55. Tung, C., "Resolution Enhancement Technology in Hewlett-Packard LaserJet Printers," *Proceedings of the SPIE - The International Society for Optical Engineering*, Vol. 1912, pp. 440-448.
- TDL ✓ A56. Warnock, J.E., "The Display of Characters Using Gray Level Sample Arrays," *Association of Computer Machinery*, 1980, pp. 302-307.
-

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-
- TD A57. Whitted, T., "Anti-Aliased Line Drawing Using Brush Extrusion," *Computer Graphics*, July 1983, Vol. 17, No. 3, pp. 151-156.
- / A58. Yu, S., et al., "43.3: How Fill Factor Affects Display Image Quality," © 1998 *SID*.
- / A59. "Cutting Edge Display Technology - The Diamond Vision Difference," www.amasis.com/diamondvision/technical.html, 2 pgs, January 12, 1999.
- / A60. "Exploring the Effect of Layout on Reading from Screen," <http://fontweb/internal/repository/explore.asp?RES=ultra>, 10 pgs, June 3, 1998.
- / A61. "How Does Hinting Help?" <http://www.microsoft.com/typography/hinting/how.htm/fname=%20&fsize>, 7 pgs, November 15, 1999.
- / A62. "Legibility on Screen: A Report On Research into Line Length, Document Height and Number of Columns," <http://fontweb/internal/repository/research/scrnlegi.asp?RES=ultra>, June 3, 1998.
- / A63. "The Effect of Line Length and Method of Movement on Reading from Screen," <http://fontweb/internal/repository/research/linelength.asp?RES=ultra>, 20 pgs, June 3, 1998.
- TD A64. "The Legibility of Screen Formats: Are Three Columns Better than One?" <http://fontweb/internal/repository/research/scrnformat.asp?RES=ultra>, 16 pgs, June 3, 1998.
-

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-
- TPC A65. "The Raster Tragedy at Low Resolution,"
<http://www.microsoft.com/typography/tools/trtalr.htm?fname=%20&fsize, 27>
pgs, November 17, 1999.
- / A66. "The TrueType Rasterizer,"
<http://www.microsoft.com/typography/what/raster.htm?fname=%20&fsize, 1>
pg, November 2, 1999.
- / A67. "TrueType Fundamentals,"
<http://www.microsoft.com/typography/OTSPEC/TTCHO1.htm?fname=%20&fsize, 17>
pgs, November 12, 1999.
- / A68. "TrueType Hinting,"
<http://www.microsoft.com/typography/hinting/hinting.htm>, 16 pgs, November
2, 1999.
- TPC A69. "Typographic Research"
<http://fontweb/internal/repository/research/research2.asp?RES=ultra>, 2 pgs,
June 3, 1998.

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References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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